

# **WASHINGTON**

## **Avista 2017 Schedule 51**

### **Cost**

### **Workpapers**

**Washington  
Schedule 51  
Summary**

	<u>Present</u>	<u>Proposed</u>	<u>% Change</u>	
Developments	\$ 1,292	\$ 1,272	-1.5%	Cost per Lot
Builder/Service Charge	<u>\$ 439</u>	<u>\$ 442</u>	0.7%	
Less Allowance:	\$ (1,695)	\$ (1,695)	0.0%	
Builder Pymt	\$ 36	\$ 19	-47.2%	
Single-Phase	<u>Present</u>	<u>Proposed</u>		
<u>Overhead Primary Circuit:</u>				
Fixed Cost	\$ 4,093	\$ 4,207	2.8%	
Variable Cost	\$ 7.97	\$ 8.18	2.6%	
<u>Underground Primary Circuit</u>				
Fixed Costs	\$ 1,811	\$ 1,813	0.1%	
Variable Costs	\$ 10.35	\$ 10.45	1.0%	
<u>Underground Secondary Circuit</u>				
Fixed Costs	\$ 400	\$ 406	1.5%	
Variable Costs	\$ 9.38	\$ 9.38	0.0%	
<u>Overhead Secondary Circuit</u>				
Fixed Costs		\$ 1,732		
Overhead Service Circuit	\$ 3.24	\$ 3.85	18.8%	increased cost of copper wire
Underground Service Circuit	\$ 8.76	\$ 8.83	0.8%	
Overhead Transformer	\$ 2,294	\$ 2,202	-4.0%	
Padmount Transformer	\$ 2,986	\$ 2,946	-1.3%	



## Work Order Cost Estimate Assembly Listing

Data Source: Work Order  
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873  
Customer Name:  
Work Zone: 15MIN  
Service Address:

Description: Development  
Est Date: Jan 13, 2017 12:32:18 PM  
Design Version: 1  
Crew Type: URDCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc
6472	1	116.88	\$0.00	\$4,709.04	\$0.00	\$12,485.74	\$0.00	\$0.00	\$9,949.30	\$0.00	\$3,327.34	\$0.00	\$7,661.01	\$0.00	\$38,162.43
Work Function	Work Function Desc	Original CU Name	Description	Quantity	Unit Cost	Line Cost									
I	Install	25P-13-240/120 E \ UX \ TR	PAD XFMR, 25KVA, 1 PH, 13200/7620, 240/120V, NO TAPS	1	1,859.69435721	\$1,859.69									
		50P-13-240/120 E \ UX \ TR	PAD XFMR, 50KVA, 1 PH, 13200/7620, 240/120V, NO TAPS	1	2,197.41422452	\$2,197.41									
		CBLPUSH E \ UP \ EC	CABLE PUSH 4 HRS/CABLE/CONDUIT	1	606.28756412	\$606.29									
		8C15 E \ UP \ PC	BUSH CAP 15KV	2	32.61956472	\$65.24									
		GNDUG E \ UP \ GR	GROUND-AT PAD OR VAULT	2	99.12318395	\$198.25									
		JE1 E \ UP \ EN	JNCTN ENCL 1PH 15KV 4POS	2	1,062.36854032	\$2,124.74									
		JE1-GNDSL V E \ UP \ UE	GROUND SLV 1PH JE1 & JE1-26KV	2	367.37506448	\$734.75									
		37.5P-13-240/120 E \ UX \ TR	PAD XFMR, 37.5KVA, 1 PH, 13200/7620, 240/120V, NO TAPS	3	2,049.4500061	\$6,148.35									
		BOXPAD E \ UX \ UE	BOX PAD - 1PH PADMOUNT TRANSF	5	596.7956708	\$2,983.96									
		GNDUG E \ UX \ GR	GROUND-AT PAD OR VAULT	5	99.12318395	\$495.62									
		HH E \ UL \ PH	HANDHOLE 13 IN X 24 IN	8	203.95800134	\$1,631.66									
		2SWEEP E \ UP \ CD	SWEEP, 2 IN, 90 DEG PVC	12	22.11927926	\$265.43									
		EB15 E \ UP \ PC	ELBW 15KV FOR #1 ALCN	12	135.82904317	\$1,629.96									
		3SWEEP E \ UP \ CD	SWEEP, 3 IN, 90 DEG PVC	16	28.12820829	\$450.05									
		BUS40 E \ UV \ SC	SEC BUS - 4 POS, 1-SCREW CONN	24	53.07342387	\$1,273.76									
		3CDTPL E \ UV \ CD	CNDT-3 INCH PVC	1,230	2.78076851	\$3,420.33									
		4/0TXUG E \ UV \ SW	CABLE #4/0 UG TRIPLEX	1,353	2.42354219	\$3,279.05									
		2CDTPL E \ UP \ CD	CNDT-2 INCH PVC	2,010	1.41296822	\$2,840.07									
		1CN15 E \ UP \ EC	CABLE UG #15OL-#2STR W/CN 15KV	2,211	2.69482113	\$5,957.81									
<b>Overall - Total</b>															<b>\$38,162.43</b>

### Development Cost Per Lot

Total Cost	Lots	Cost/Lot
\$ 38,162	30	\$ 1,272



## Work Order Cost Estimate Assembly Listing

Data Source: Work Order  
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873  
 Customer Name:  
 Work Zone: SMALLJOB  
 Service Address:

Description: Builder's Charge  
 Est Date: Jan 13, 2017 12:32:38 PM  
 Design Version: 2  
 Crew Type: URDCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc
6472	2	2.55	\$0.00	\$102.82	\$0.00	\$79.60	\$0.00	\$0.00	\$217.23	\$0.00	\$42.12	\$0.00	\$0.00	\$0.00	\$441.77
Work Function	Work Function Desc	Original CU Name	Description	Quantity	Unit Cost	Line Cost									
I	Install	2CDTPL E \ UV \ CD	CNDT-2 INCH PVC	50	1.54223538	\$77.11									
		DD24HOE E \ UV \ DT	BACKHOE 24 IN DIRT DITCH	50	4.86598378	\$243.30									
		2/0TXUG E \ UV \ SW	CABLE 2/0 UG TRIPLEX	55	2.20642277	\$121.35									
<b>Overall - Total</b>												<b>\$441.76</b>			



## Work Order Cost Estimate Assembly Listing

Data Source: Work Order  
Data Updated Daily

Work Order 1000281873

WO Number: 1000281873  
Customer Name:  
Work Zone: SMALLJOB  
Service Address:

Description: OH Primary Fixed  
Est Date: Jan 13, 2017 12:32:59 PM  
Design Version: 3  
Crew Type: OHCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc
6472	3	22.04	\$0.00	\$874.57	\$0.00	\$1,525.69	\$0.00	\$0.00	\$1,046.66	\$0.00	\$759.92	\$0.00	\$0.00	\$0.00	\$4,206.84
Work Function	Work Function Desc	Original CU Name	Description	Quantity	Unit Cost	Line Cost									
I	Install	1X E \ OH \ GA	ANCHOR PLATE 1 IN X 10 FT	1	511.08261184	\$511.08									
		45PCL3 E \ OH \ PL	POLE CDR 45 FT DIRT CLS 3	1	1,863.55279676	\$1,863.55									
		GND E \ OH \ GR	GROUND ROD	1	89.06834456	\$89.07									
		GND-THEFT DET E \ OH \ GR	GROUND THEFT DETERRENT COVER	1	106.51810781	\$106.52									
		PIVT15-25 E \ OH \ IN	INSULATOR-PIN VISE TOP 15-25KV	1	48.96427255	\$48.96									
		PP E \ OH \ PI	POLE TOP PIN SINGLE 15-35KV	1	58.55911902	\$58.56									
		7/16DGKIT-LIGHT E \ OH \ GA	DOWN GUY KIT 7/16 LIGHT CONSTR	2	596.10127468	\$1,192.20									
		DEINPL25 E \ OH \ IN	INSULATOR DEADEND 15/25KV PE	2	15.77262639	\$31.55									
		NDE E \ OH \ IN	DEADEND NEUT (8KV)	2	10.57345091	\$21.15									
		NPDEHW E \ OH \ HW	HDWRE D E NEUT 1 WAY ON POLE	2	27.50378479	\$55.01									
		PDEHW E \ OH \ HW	HDWR DE - 1 WAY ON POLE	2	36.09564944	\$72.19									
		CDEA4AC E \ OH \ CL	CLAMP D E AUTO FOR #4 ACSR	4	39.24938126	\$157.00									
<b>Overall - Total</b>														<b>\$4,206.84</b>	



## Work Order Cost Estimate Assembly Listing

Data Source: Work Order  
Data Updated Daily

Work Order 1000281873

WO Number: 1000281873  
Customer Name:  
Work Zone: SMALLJOB  
Service Address:

Description: OH Primary Variable  
Est Date: Jan 13, 2017 12:33:47 PM  
Design Version: 4  
Crew Type: OHCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for Ad-Hoc
6472	4	16.18	\$0.00	\$642.23	\$0.00	\$924.40	\$0.00	\$0.00	\$768.60	\$0.00	\$527.07	\$0.00	\$0.00	\$0.00	\$2,862.30
Work Function	Work Function Desc	Original CU Name	Description	Quantity	Unit Cost	Line Cost									
I	Install	1RH E \ OH \ SR	SEC RACK, 1 SPOOL - HEAVY DUTY	1	136.31876638	\$136.32									
		45PCL3 E \ OH \ PL	POLE COR 45 FT DIRT CLS 3	1	1,871.5568056	\$1,871.56									
		GND E \ OH \ GR	GROUND ROD	1	89.45089547	\$89.45									
		GND-THEFT DET E \ OH \ GR	GROUND THEFT DETERRENT COVER	1	106.97560591	\$106.98									
		PIVT15-25 E \ OH \ IN	INSULATOR-PIN VISE TOP 15-25KV	1	49.1745754	\$49.17									
		PP E \ OH \ PI	POLE TOP PIN SINGLE 15-35KV	1	58.810632	\$58.81									
		ST4 E \ OH \ CL	PRFRMD TIE WIRE-SPOOL #4 ACSR	1	7.59187373	\$7.59									
		4ACSR E \ OH \ EC	CNDTR 4 ACSR	770	0.70444086	\$542.42									
<b>Overall - Total</b>												<b>\$2,862.30</b>			

### Overhead Primary Variable Cost

Total Cost	Length (ft)	Cost/ft
\$ 2,862	350	\$ 8.18



## Work Order Cost Estimate Assembly Listing

Data Source: Work Order  
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873  
Customer Name:  
Work Zone: 15MIN  
Service Address:

Description: UG Primary Fixed  
Est Date: Jan 13, 2017 12:35:36 PM  
Design Version: 8  
Crew Type: URDCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc
6472	8	5.29	\$0.00	\$212.96	\$0.00	\$940.34	\$0.00	\$0.00	\$449.95	\$0.00	\$209.76	\$0.00	\$0.00	\$0.00	\$1,813.01
Work Function	Work Function Desc	Original CU Name	Description	Quantity	Unit Cost	Line Cost									
I	Install	JE1 E \ UP \ EN	JNCTN ENCL 1PH 15KV 4POS	1	1,063.62681642	\$1,063.63									
		JE1-GND SLV E \ UP \ UE	GROUND SLV 1PH JE1 & JE1-25KV	1	367.81021587	\$367.81									
		2SWEEP E \ UP \ CD	SWEEP, 2 IN, 90 DEG PVC	2	22.14547653	\$44.29									
		BC15 E \ UP \ EN	BUSH CAP 15KV	2	32.65819954	\$65.32									
		EB15 E \ UX \ PC	ELBW 15KV FOR #1 ALCN	2	135.98992279	\$271.98									
<b>Overall - Total</b>												<b>\$1,813.02</b>			



## Work Order Cost Estimate Assembly Listing

Data Source: Work Order  
Data Updated Daily

Work Order 1000281873

WO Number:	1000281873	Description:	UG Primary Variable
Customer Name:		Est Date:	Jan 13, 2017 12:35:56 PM
Work Zone:	15MIN	Design Version:	9
Service Address:		Crew Type:	URDCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc	
6472	9	35.63	\$0.00	\$1,435.62	\$0.00	\$1,382.60	\$0.00	\$0.00	\$3,033.20	\$0.00	\$630.94	\$0.00	\$0.00	\$0.00	\$6,482.36	
Work Function		Work Function Desc	Original CU Name		Description		Quantity	Unit Cost	Line Cost							
		Install	CBLPUSH E \ UP \ EC		CABLE PUSH 4 HRS/CABLE/CONDUIT		1	594.6548534	\$594.65							
			2CDTPL E \ UP \ CD		CNDT-2 INCH PVC		620	1.3858579	\$859.23							
			DD36HOE E \ UP \ DT		BACKHOE 36 IN DIRT DITCH		620	5.20322896	\$3,226.00							
			1CN15 E \ UP \ EC		CABLE UG #1SOL-#2STR W/CN 15KV		682	2.64291931	\$1,802.47							
<b>Overall - Total</b>											<b>\$6,482.36</b>					

### UG Primary Variable Cost

Total Cost	Length (ft)	Cost/ft
\$ 6,482	620	\$ 10.45





## Work Order Cost Estimate Assembly Listing

Data Source: Work  
Order  
Data Updated Daily

Work Order: 1000281873

WO Number:	1000281873	Description:	UG Secondary Fixed
Customer Name:		Est Date:	Jan 13, 2017 12:36:41 PM
Work Zone:	15MIN	Design Version:	10
Service Address:		Crew Type:	URDCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc	
6472	10	2 13		\$0.00	\$85.79	\$0.00	\$98.98	\$0.00	\$0.00	\$181.26	\$0.00	\$40.29	\$0.00	\$0.00	\$0.00	\$406.32
Work Function		Work Function Desc		Original CU Name		Description		Quantity	Unit Cost	Line Cost						
		I		Install		2SWEEP E \ UV \ CD		1	21.7387991	\$21.74						
						3SWEEP E \ UV \ CD		1	27.64436508	\$27.64						
						HH E \ UL \ HH		1	200.44961781	\$200.45						
				BUS40 E \ UV \ SC		SEC BUS - 4 POS, 1-SCREW CONN		3	52.160486	\$156.48						
<b>Overall - Total</b>																<b>\$406.31</b>



## Work Order Cost Estimate Assembly Listing

Data Source: Work Order  
Data Updated Daily

Work Order: 1000281873

WO Number:	1000281873	Description:	UG Secondary Variable
Customer Name:		Est Date:	Jan 13, 2017 12:37:04 PM
Work Zone:	15MIN	Design Version:	11
Service Address:		Crew Type:	URDCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc
6472	11	2.36		\$0.00	\$95.40	\$0.00	\$125.30	\$0.00	\$201.57	\$0.00	\$47.21	\$0.00	\$0.00	\$0.00	\$469.48
<b>Overall - Total</b>															<b>\$469.48</b>

  

Work Function	Work Function Desc	Original CU Name	Description	Quantity	Unit Cost	Line Cost
I	Install	3CDTPE \ UV \ CD	CNDT-3 INCH PVC	50	2.73717915	\$136.86
		DD24HOE E \ UV \ DT	BACKHOE 24 IN DIRT DITCH	50	4.02830858	\$201.42
		4/0TXUG E \ UV \ SW	CABLE #4/0 UG TRIPLEX	55	2.38556225	\$131.21

### UG Secondary Variable Cost

Total Cost	Length (ft)	Cost/ft
\$ 469	50	\$ 9.38



## Work Order Cost Estimate Assembly Listing

Data Source: Work Order  
Data Updated Daily

Work Order 1000281873

WO Number:	1000281873	Description:	Secondary Pole Fixed Cost
Customer Name:		Est Date:	Jan 13, 2017 2:03:50 PM
Work Zone:	SMALLJOB	Design Version:	15
Service Address:		Crew Type:	OHCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc
6472	15	10.63	\$0.00	\$422.06	\$0.00	\$478.91	\$0.00	\$0.00	\$505.12	\$0.00	\$326.07	\$0.00	\$0.00	\$0.00	\$1,732.16

Work Function	Work Function Desc	Original CU Name	Description	Quantity	Unit Cost	Line Cost
I	Install	1RHE\OH\SR	SEC RACK, 1 SPOOL - HEAVY DUTY	1	137.00740233	\$137.01
		35PCL4E\OH\PL	POLF CDR 35 FT DIRT CLS 4	1	1,595.14945767	\$1,595.15
<b>Overall - Total</b>						<b>\$1,732.16</b>



## Work Order Cost Estimate Assembly Listing

Data Source: Work  
Order  
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873  
 Customer Name:  
 Work Zone: SMALLJOB  
 Service Address:

Description: OH Service  
 Est Date: Jan 13, 2017 12:34:09 PM  
 Design Version: 5  
 Crew Type: OHCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc
6472	5	1.72	\$0.00	\$68.21	\$0.00	\$35.22	\$0.00	\$0.00	\$81.63	\$0.00	\$46.03	\$0.00	\$0.00	\$0.00	\$231.09
Work Function	Work Function Desc	Original CU Name	Description	Quantity	Unit Cost	Line Cost									
I	Install	2TX E \ OH \ SW	CNDTR #2 TRIPLEX	66	3.50147955	\$231.10									
<b>Overall - Total</b>										<b>\$231.10</b>					

### OH Service Variable Cost

Total Cost	Length (ft)	Cost/ft
\$ 231	60	\$ 3.85



## Work Order Cost Estimate Assembly Listing

Data Source: Work Order  
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873  
Customer Name:  
Work Zone: SMALLJOB  
Service Address:

Description: UG Service  
Est Date: Jan 13, 2017 12:37:29 PM  
Design Version: 12  
Crew Type: URDCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc
6472	12	3.82	\$0.00	\$154.05	\$0.00	\$118.94	\$0.00	\$0.00	\$325.48	\$0.00	\$63.05	\$0.00	\$0.00	\$0.00	\$681.62
Work Function	Work Function Desc	Original CU Name	Description	Quantity	Unit Cost	Line Cost									
	Instal	2CDTPL E \ UV \ CD	CNDT-2 INCH PVC	75	1.54219553	\$115.66									
		DD24HOE E \ UV \ DT	BACKHOE 24 IN DIRT DITCH	75	4.86586768	\$364.94									
		2/OTXUG E \ UV \ SW	CABLE 2/0 UG TRIPLEX	82	2.20636536	\$180.92									
<b>Overall - Total</b>												<b>\$681.62</b>			

### UG Service Variable Cost

Total Cost	Length (ft)	Cost/ft
\$ 662	75	\$ 8.83



## Work Order Cost Estimate Assembly Listing

Data Source: Work Order  
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873  
Customer Name:  
Work Zone: SMALLJOB  
Service Address:

Description: OH Transformer  
Est Date: Jan 13, 2017 12:34:29 PM  
Design Version: 6  
Crew Type: OHCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc
6472	6	18.72	\$0.00	\$743.00	\$0.00	\$41.76	\$0.00	\$0.00	\$889.20	\$0.00	\$447.40	\$0.00	\$7,481.73	\$0.00	\$9,603.09
Work Function	Work Function Desc	Original CU Name	Description	Quantity	Unit Cost	Line Cost									
1	Install	100-13-120/240 E \ OH \ TR	OH XFMR, 100KVA, 1 PH, 7620/13200, 120/240V, NO TAPS	1	2,794.48381457	\$2,794.48									
		15-13-120/240 E \ OH \ TR	OH XFMR, 15KVA, 1 PH, 7620/13200, 120/240V, NO TAPS	1	1,011.91541043	\$1,011.92									
		25-13-120/240 E \ OH \ TR	OH XFMR, 25KVA, 1 PH, 7620/13200, 120/240V, NO TAPS	1	1,115.30232383	\$1,115.30									
		37.5-13-120/240 E \ OH \ TR	OH XFMR, 37.5KVA, 1 PH, 7620/13200, 120/240V, NO TAPS	1	1,276.75731521	\$1,276.76									
		50-13-120/240 E \ OH \ TR	OH XFMR, 50KVA, 1 PH, 7620/13200, 120/240V, NO TAPS	1	1,441.49405607	\$1,441.49									
		75-13-120/240 E \ OH \ TR	OH XFMR, 75KVA, 1PH, 7620/13200, 120/240120V, NO TAPS	1	1,963.13875988	\$1,963.14									
<b>Overall - Total</b>															
<b>\$9,603.09</b>															

OH Transformer	Unit Cost	% Used	% Cost
15-13-120/240	\$ 1,011.92	44.14%	\$ 446.66
25-13-120/240	\$ 1,115.30	28.24%	\$ 314.96
37.5-13-120/240	\$ 1,276.76	9.82%	\$ 125.38
50-13-120/240	\$ 1,441.49	11.75%	\$ 169.38
75-13-120/240	\$ 1,963.14	4.96%	\$ 97.37
100-13-120/240	\$ 2,794.48	1.09%	\$ 30.46
<b>TOTAL</b>			<b>\$ 1,184</b>

### OH Transformer Total

Install	Transformer	Total
\$ 1,018	\$ 1,184	\$ 2,202



## Work Order Cost Estimate Assembly Listing

Data Source: Work Order  
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873  
 Customer Name:  
 Work Zone: SMALLJOB  
 Service Address:

Description: OH Transformer Install  
 Est Date: Jan 13, 2017 12:35:15 PM  
 Design Version: 7  
 Crew Type: OHCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc	
6472	7	5.82	\$0.00	\$231.28	\$0.00	\$321.65	\$0.00	\$0.00	\$276.79	\$0.00	\$188.04	\$0.00	\$0.00	\$0.00	\$1,017.76	
Work Function	Work Function Desc	Original CU Name	Description	Quantity	Unit Cost	Line Cost										
I	Install	18FGSOBE\OH\LF	18 IN FIBERGLASS SO BRACKET	1	272.17429759	\$272.17										
		3RE\OH\SR	3 SPOOL RACK	1	180.09453643	\$180.09										
		CO100E\OH\XD	CUTOUT POLY 15,25,35KV 100A	1	213.49407794	\$213.49										
		GNDTE\OH\GR	GROUND-OH TRANSFORMER	1	26.93388826	\$26.93										
		LA10TE\OH\XD	TFMR LIGHTNING ARRESTER 10KV	1	203.1536442	\$203.15										
		TMHWE\OH\HW	TRANSF MOUNTING HRDWR 3-25KVA	1	38.7573072	\$38.76										
		3/0CUWPE\OH\RW	CNDTR, 3/0 COPPER WP	23	3.61571993	\$83.16										
<b>Overall - Total</b>											<b>\$1,017.77</b>					



## Work Order Cost Estimate Assembly Listing

Data Source: Work  
Order  
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873  
Customer Name:  
Work Zone: SMALLJOB  
Service Address:

Description: UG Transformer  
Est Date: Jan 13, 2017 12:37:47 PM  
Design Version: 13  
Crew Type: URDCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc	
6472	13	27.69	\$0.00	\$1,115.63	\$0.00	\$24.54	\$0.00	\$0.00	\$2,357.11	\$0.00	\$324.42	\$0.00	\$10,441.92	\$0.00	\$14,263.62	
Work Function	Work Function Desc	Original CU Name	Description	Quantity	Unit Cost	Line Cost										
I	Install	100P-13-240/120 E \ UX \ TR	PAD XFMR, 100KVA, 1 PH, 13200/7620, 240/120V, NO TAPS	1	3,313.17287923	\$3,313.17										
		15P-13-240/120-T E \ UX \ TR	PAD XFMR, 15KVA, 1 PH, 13200/7620, 240/120V, TAPS	1	1,595.76848021	\$1,595.77										
		25P-13-240/120 E \ UX \ TR	PAD XFMR, 25KVA, 1 PH, 13200/7620, 240/120V, NO TAPS	1	1,993.32001617	\$1,993.32										
		37.5P-13-240/120 E \ UX \ TR	PAD XFMR, 37.5KVA, 1 PH, 13200/7620, 240/120V, NO TAPS	1	2,184.80126055	\$2,184.80										
		50P-13-240/120 E \ UX \ TR	PAD XFMR, 50KVA, 1 PH, 13200/7620, 240/120V, NO TAPS	1	2,334.11104039	\$2,334.11										
		75P-13-240/120 E \ UX \ TR	PAD XFMR, 75KVA, 1 PH, 13200/7620, 240/120V, NO TAPS	1	2,842.44815346	\$2,842.45										
<b>Overall - Total</b>																<b>\$14,263.62</b>

UG Transformer	Unit Cost	% Used	% Cost
15P-13-120/240	\$ 1,595.77	26.60%	\$ 424.47
25P-13-120/240	\$ 1,993.32	25.40%	\$ 506.30
37.5P-13-120/240	\$ 2,184.80	17.90%	\$ 391.08
50P-13-120/240	\$ 2,334.11	15.10%	\$ 352.45
75P-13-120/240	\$ 2,842.45	8.10%	\$ 230.24
100P-13-120/240	\$ 3,313.17	6.90%	\$ 228.61
<b>TOTAL</b>			<b>\$ 2,133</b>

### UG Transformer Total

Install	Transformer	Total
\$ 813	\$ 2,133	\$ 2,946





## Work Order Cost Estimate Assembly Listing

Data Source: Work  
Order  
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873  
 Customer Name:  
 Work Zone: SMALLJOB  
 Service Address:

Description: UG Transformer Install  
 Est Date: Jan 13, 2017 12:38:06 PM  
 Design Version: 14  
 Crew Type: URDCREW

Estimate Request	Est Ver	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Adhoc Materials	Adjusted Total Cost for AdHoc
6472	14	2.5	\$0.00	\$100.56	\$0.00	\$406.94	\$0.00	\$0.00	\$212.47	\$0.00	\$93.19	\$0.00	\$0.00	\$0.00	\$813.16
<b>Work Function</b>	<b>Work Function Desc</b>	<b>Original CU Name</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Line Cost</b>									
I	Install	2SWEEP E \ UP \ CD	SWEEP, 2 IN, 90 DEG PVC	1	26.02755957	\$26.03									
		8C15 E \ UX \ PC	BUSH CAP 15KV	1	34.24673659	\$34.25									
		BOXPAD E \ UX \ UE	BOX PAD - 1PH PADMOUNT TRANSF	1	637.48687595	\$637.49									
		GNDUG E \ UX \ GR	GROUND-AT PAD OR VAULT	1	115.40729788	\$115.41									
<b>Overall - Total</b>												<b>\$813.17</b>			